

Kara Rudolph

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EDUCATION:

Ph.D. Johns Hopkins University **January 2014**

Bloomberg School of Public Health

Department of Epidemiology

Methods Concentration

Advisor: Thomas Glass

Thesis: *Mental health in context: effect heterogeneity and mechanism in the relationship between neighborhood disadvantage and adolescent depression and anxiety.*

M.H.S. Johns Hopkins University **December 2013**

Bloomberg School of Public Health

Department of Biostatistics

Advisor: Elizabeth Stuart

Thesis: *Implementation of methods to estimate population marginal treatment effects in the presence of non-randomized treatment assignment and informative selection from a population-based sample.*

M.P.H. Johns Hopkins University **May 2008**

Bloomberg School of Public Health

Areas of focus: epidemiology, program evaluation, maternal and child health

Capstone: *Evaluation design for a study using community health workers to improve breastfeeding rates among adolescent African American women in East Baltimore.*

Graduate course in Biostatistics **December 2006**

University of Pennsylvania

B.S. University of Michigan **May 2005**

College of Literature, Science and Arts

Highest Honors in Biochemistry

Thesis: *Actin-regulatory proteins p116^{RIP} and LIMK2 interact with POSH.*

AWARDS:

Robert Wood Johnson Foundation Health and Society Scholar: 2014-2016

Student Paper Award—American Statistical Association, Social Statistics/Government/
Survey Research Methods Sections: 2014

Sommer Scholar—Johns Hopkins School of Public Health: 2012-2014

Intramural Research Training Award Fellow—National Institute of Mental Health: 2010-
2012

Delta Omega Honor Society – Johns Hopkins School of Public Health: 2008

James B. Angell Scholar – University of Michigan: 2003-2005

University Honors – University of Michigan: 2001-2005

PAPERS:

Published

Rudolph KE, Diaz I, Rosenblum M, Stuart EA. Estimating population treatment effects from a survey sub-sample. *Am J Epidemiol*. 2014. In press.

Rudolph KE, Wand GS, Stuart EA, Glass TA, Marques AH, Duncko R, Merikangas KR. The association between cortisol characteristics and neighborhood disadvantage in a population-based sample of U.S. adolescents. *Health Place*. 2014;25:68-77.

Rudolph KE, Stuart EA, Glass TA, Merikangas KR. Neighborhood disadvantage in context: the influence of urbanicity on the association between neighborhood

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disadvantage and adolescent emotional disorders. *Soc Psychiatry Psychiatr Epidemiol*. 2014;49(3):467-75.

Rudolph KE, Lessler J, Moloney R, Kmush B, Cummings DAT. Incubation periods of mosquito-borne infections: a systematic review. *Am J Trop Med Hyg*. 2014;90(5):882-91.

Rudolph KE, Glass TA, Crum RM, Schwartz BS. Neighborhood psychosocial hazards and binge drinking among late middle-aged adults. *J Urban Health*. 2013; 90(5):970-82.

Lee RM, Lessler J, Lee RA, **Rudolph KE**, Reich NG, Perl TM, Cummings DAT. Incubation periods of viral gastroenteritis: a systematic review. *BMC Infect Dis*. 2013; 13(1):446.

Azman AS, **Rudolph KE**, Cummings DAT, Lessler J. The incubation period of cholera: a systematic review. *J Infect*. 2013; 66(5): 432-8.

Under Review

Hadley B, **Rudolph KE**, Mogul M, Perry DF. Providing home visiting to high-risk pregnant and postpartum families: the development and evaluation of the MOMobile program. *Zero to Three*.

In Preparation

Rudolph KE, Webster D, Stuart EA. Effects of Connecticut's permit-to-purchase law on homicides.

Rudolph KE, Stuart EA. Connections between unobserved confounding and covariate measurement error in propensity score methods.

Rudolph KE, Golden SH, Fujishiro K, Sanchez B, Wand GS, Stuart EA, Seeman T, Diez Roux A. Job strain and cortisol: the Multi-Ethnic Study of Atherosclerosis.

Webb-Vargas Y, **Rudolph KE**, Lenis D, Murakami P, Stuart EA. Applying multiple imputation for external calibration to propensity score analysis.

PRESENTATIONS & POSTERS:

Rudolph KE, Diaz I, Rosenblum M, Stuart EA. *Estimating population treatment effects from a survey sub-sample*. Oral presentation as part of topic-contributed session *Fresh Perspectives in Causal Inference II* at the Joint Statistical Meetings, Boston, MA, 2014.

Stuart EA, **Rudolph KE**. Bayesian approaches for handling differential covariate measurement error in propensity score methods. Oral presentation at the International Biometric Conference, Florence, Italy, 2014.

Paksarian D, **Rudolph KE**, He JP, Zhang C, Merikangas KR. School start time and sleep patterns among U.S. adolescents: Results from the National Comorbidity Survey – Adolescent Supplement. Poster at the Society for Epidemiological Research Conference, Seattle, WA, 2014.

Rudolph KE, Wand GS, Stuart EA, Glass TA, Marques AH, Duncko R, Merikangas KR. *The association between cortisol characteristics and neighborhood disadvantage in a population-based sample of U.S. adolescents*. Poster at the Society for Epidemiologic Research Conference, Boston, MA, 2013.

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Rudolph KE, Stuart EA, Glass TA, Merikangas, KR. *Using propensity score subclassification to examine the association between neighborhood disadvantage and adolescent mental health*. Poster at the Society for Epidemiologic Research Conference, Minneapolis, MN, 2012.

Rudolph KE, Glass TA, Schwartz BS. *Neighborhood psychosocial hazards and binge drinking among older adults*. Poster at the Society for Epidemiologic Research Conference, Minneapolis, MN, 2012.

Azman AS, **Rudolph KE**, Cummings DAT, Lessler J. *The incubation period of cholera: a pooled parametric survival analysis of doubly interval censored data*. Poster at the Society for Epidemiologic Research Conference, Minneapolis, MN, 2012.

Rudolph K, Gabor V, Morgan R. *Environmental supports and barriers to physical activity in D.C. child care centers*. Oral presentation at the Annual American Public Health Association Conference, Denver, CO, 2010.

INVITED TALKS:

Neighborhood Disadvantage and Cortisol, Drexel School of Public Health, Department of Epidemiology and Biostatistics, Philadelphia, PA, March 2014.

**PROFESSIONAL
EXPERIENCE:**

Robert Wood Johnson Foundation **September 2014-present**
Health and Society Scholar
University of California, Berkeley
University of California, San Francisco
Advised by Dr. Jennifer Ahern

Postdoctoral Fellow **February 2014-August 2014**
Department of Mental Health
Johns Hopkins School of Public Health, Baltimore, Maryland
Drug Dependence and Epidemiology Training Program
Advised by Dr. Elizabeth Stuart

Statistical Consultant **April 2013-August 2014**
Georgetown University, Washington, District of Columbia
Center for Child and Human Development
Partners for a Healthy Baby Evaluation

Teaching Assistant **September 2011-December 2013**
Department of Epidemiology
Department of Biostatistics
Johns Hopkins School of Public Health, Baltimore, Maryland
Courses: Spatial Analysis and GIS I & II, Fundamentals of Epidemiology and Biostatistics (3 years), Methodologic Challenges in Epidemiologic Research, Doctoral Seminars in Epidemiology.

Research Assistant for Dr. Derek Cummings **December 2010-June 2013**
and Dr. Justin Lessler
Johns Hopkins School of Public Health, Baltimore, Maryland

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Research Assistant for Dr. Elizabeth Stuart **September 2012-January 2013**
Johns Hopkins School of Public Health, Baltimore, Maryland

Pre-Doctoral Fellow **December 2010-August 2012**
National Institutes of Mental Health, Bethesda, Maryland
Designed and conducted analysis using the National Comorbidity Survey Replication-Adolescent Supplement (NCS-A) dataset.

Consultant **September 2010-December 2010**
Altarum Institute, Washington, District of Columbia

- Designed program evaluations for the State of Michigan's Communities Putting Prevention to Work grant programs.
- Conducted quantitative data analysis for several CDC-funded projects, including ACHIEVE and the State of Michigan's School Nutrition Standards grant program.

Policy Associate **June 2008-August 2010**
Altarum Institute, Washington, District of Columbia

- Project Management: Managed program evaluation projects contracted by the Health Resources and Services Administration (HRSA) of HHS.
- Evaluation Design: Designed program evaluations for the Maternal and Child Health Bureau's Early Childhood Comprehensive Systems Initiative, Texas' Medicaid case management program, HRSA's Bureau of Health Professions' minority health professions grant program, and Michigan's Building Healthy Communities grant program.
- Qualitative data analysis: Analyzed data obtained from focus groups, in-depth interviews, and data abstraction using NVivo qualitative analysis software.
- Quantitative data analysis: Led teams in analysis of primary and secondary data using STATA and SAS statistical software.
- Report writing: Co-authored several reports to HHS' Office of Women's Health, HRSA's Bureau of Health Professions and Bureau of Healthcare Systems, and the Maternal and Child Health Bureau.

Intern **August 2007-January 2008**
Howard County Health Department, Columbia, Maryland

- Developed policies for health care access program to provide affordable, comprehensive health care coverage for all Howard County residents

Field Worker **January 2008**
Johns Hopkins Center for American Indian Health, Albuquerque, NM

- Field work as a Family Health Liaison for a teen mother health behavior intervention on Navajo and Apache reservations.

Staff Scientist **June 2005- June 2007**
Merck & Co. Inc., West Point, Pennsylvania

- Supported demonstration and licensing of Varicella manufacturing facility
- Provided technical and biological support for Varicella processing
- Project and People Management
 - Led project to re-design sterility testing

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- Trained biotechnicians on Varicella manufacturing processes

Intern **May-August 2003&2004**
Merck & Co. Inc., West Point, Pennsylvania

**PROFESSIONAL
ACTIVITIES:**

Reviewer
American Journal of Epidemiology 2014
BMC Public Health 2014
Environment International 2014
Journal of Epidemiology and Community Health 2013

**OTHER
EXPERIENCE:**

Mentor **March 2014-June 2014**
College Bound
Washington, District of Columbia

Student Group Leader **September 2010-May 2012**
Social Epidemiology Student Organization
Johns Hopkins University, Baltimore, Maryland

Workshop Leader **November 2008-May 2012**
826, D.C., Washington, District of Columbia
Led creative writing projects for students in D.C. public schools.

Project Leader **September 2008-July 2010**
D.C. Cares, Washington, District of Columbia

Planning Team Member **September 2007-February 2008**
Johns Hopkins University, Baltimore, Maryland
UNICEF State of the World's Children Report Release Event

SKILLS: R, STATA, and SAS statistical programs.